

1962

Bulletin of the College of Dentistry, 1962-1963

University of Nebraska

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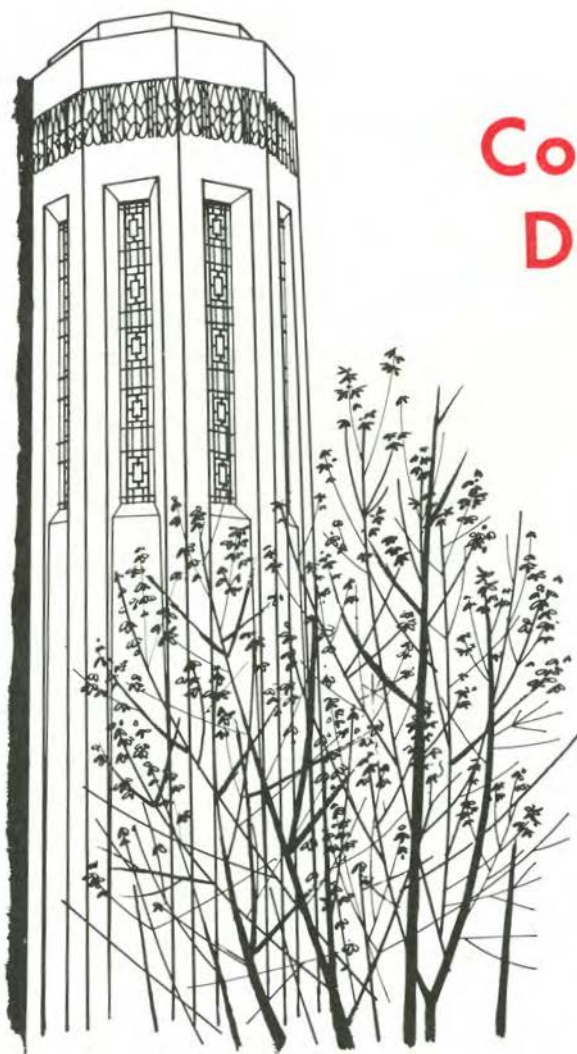
Bulletin of

THE UNIVERSITY OF NEBRASKA

College of Dentistry

ANNOUNCEMENTS
1962 - 1963

NOVEMBER 22, 1961



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The faculty of the College of Dentistry, University of Nebraska, recognizing its responsibilities to its students, the profession and the public, sets forth the following as the objectives of the College:

1. To make every effort to select students for the study of dentistry who have the personal and moral qualifications and the scholastic ability for a professional career in dentistry.
2. To provide, within a flexible curriculum, a solid foundation of fundamental scientific knowledge and the basic technical skills necessary to the utilizing of this knowledge.
3. To motivate students to recognize and fulfill their social and moral responsibilities to their patients, their civic responsibility to the community, and their ethical obligation to the profession of dentistry.
4. To inspire students to recognize the need for continuing education and for personal and professional evaluation throughout their professional careers.

college of dentistry
1962-1963

SERIES LXVII

NOVEMBER 22, 1961

NUMBER 3

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CALENDAR

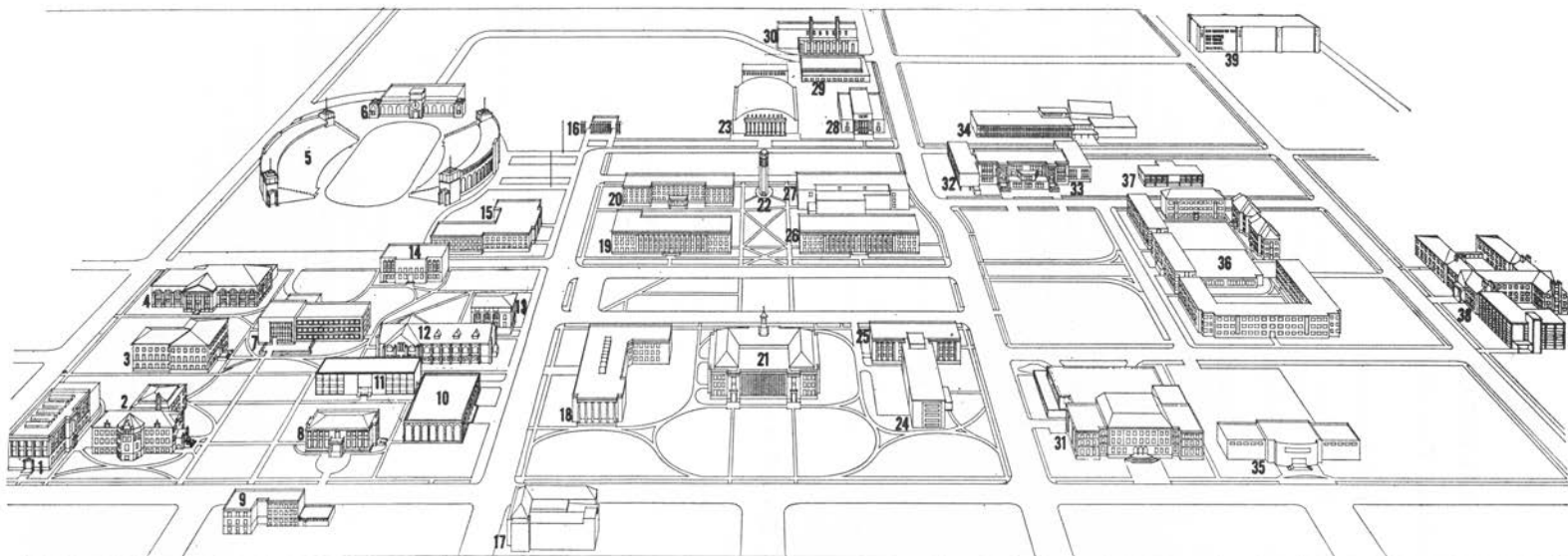
Academic Year 1962 - 1963

First Semester

Sept. 10, 11, 12—Mon., Tues., Wed.	Late student preregistration tests and medical exams
Sept. 12, 13, 14—8:00-11:30 a.m., 1:00-4:00 p.m.	General registration
Sept. 17—Mon.	Late fees for undergraduate students begin
Sept. 17—Mon.	First semester classes begin
Sept. 24—Mon.	Late fees for graduate students begin
Sept. 29—Sat. noon	Final day on which registration and payment of fees will be accepted
Oct. 13—Sat. noon	First scholastic reports due
Nov. 20—Tues.	Second scholastic reports due
Nov. 21-25—Wed. 8:00 a.m. through Sun.	Thanksgiving vacation
Dec. 15—Sat. noon	Last day to file drops in Registrar's Office
Dec. 22-Jan. 6—Sat. noon through Sun.	Christmas vacation
Jan. 19—Sat.	Last day of first semester classes
Jan. 22-30—Tues. through Wed.	First semester examinations
Feb. 2—Sat.	First semester commencement

Second Semester

Jan. 30-31—Wed. and Thurs.	Preregistration tests
Jan. 31—Thurs.	Medical examinations
Feb. 1—Fri.	Registration
Feb. 4—Mon.	Late fees for undergraduate students begin
Feb. 4—Mon.	Second semester classes begin
Feb. 11—Mon.	Late fees for graduate students begin
Feb. 15—Fri.	Charter Day
Feb. 16—Sat. noon	Final day on which registrations and payment of fees will be accepted
Mar. 2—Sat. noon	First scholastic reports due
April 13—Sat. noon	Second scholastic reports due
April 13-21—Sat. noon through Sun.	Spring vacation (Easter, April 14)
April 23—Tues.	Honors Convocation
May 3—Fri. noon	Spring Day, no undergraduate classes
May 4—Sat.	Ivy Day, no undergraduate classes
May 4—Sat. noon	Last day to file drops in Registrar's Office
May 25—Sat.	Last day of second semester classes
May 30—Thurs.	Memorial Day (legal holiday)
May 28-June 6—Tues. through Thurs.	Second semester examinations
June 8—Sat.	Alumni Round-Up Day
June 8—Sat.	June Commencement



CITY CAMPUS

1. College of Law
2. Architectural Hall
3. Brace Laboratory
4. Richards Hall
5. Stadium
6. Field House
7. Ferguson Hall
8. Former Administration Building
9. Music Building
10. Sheldon Memorial Art Gallery
11. Nelle Cochrane Woods Building
12. Grant Memorial Hall
13. Geography Building

14. Stout Hall
15. Avery Laboratory of Chemistry
16. The Columns
17. Temple Building and Theatre
18. Social Sciences Hall
19. Burnett Hall
20. Bessey Hall
21. Love Memorial Library
22. Mueller Tower
23. Coliseum
24. Administration Building
25. Teachers College
26. Andrews Hall

27. Morrill Hall
28. Military and Naval Sciences Building
29. Men's Physical Education Building
30. Heat and Power Plant
31. Nebraska Union
32. Lyman Hall
33. Bancroft Hall
34. University High School
35. Nebraska State Historical Society
36. Selleck Quadrangle
37. University Health Center
38. Women's Residence Halls
39. Nebraska Hall

ADMINISTRATION

The Board of Regents

Term Expires

Frank Foote, Axtell.....	January 1963
J. G. Elliott, Scottsbluff.....	January 1963
B. N. Greenberg, M.D., York.....	January 1965
Richard E. Adkins, Osmond.....	January 1965
J. Leroy Welsh, Omaha.....	January 1967
Clarence E. Swanson, Lincoln.....	January 1967

John Kent Selleck, Lincoln, Corporation Secretary

The University

- Clifford Morris Hardin, Ph.D., Chancellor of the University.
Adam Carlyle Breckenridge, Ph.D., Dean of Faculties.
James S. Pittenger, B.S., Assistant to the Chancellor.
Ralph Leonard Ireland, D.D.S., B.S., M.S., Dean of the College of Dentistry.
Joseph Soshnik, Ph.D., Comptroller of the University.
Carl A. Donaldson, M.S., Business Manager of the University.
Floyd Hoover, Ph.D., Registrar.
J. Philip Colbert, M.S., Dean of the Division of Student Affairs.
Frank M. Hallgren, M.B.A., Associate Dean, Division of Student Affairs.
Helen Snyder, M.A., Associate Dean, Division of Student Affairs.

The Faculty

- William Duane Ahrens, B.S., D.D.S., Instructor in Diagnosis (Clinical).
Selma Bernardina Anderson, A.B., M.T., (ASCP), M.S., Assistant Professor of Oral Pathology.
Leland Dill Arnot, D.D.S., Instructor in Dental Literature and History.
Mildred G. Atkinson, R.N., Instructor in Operating Room Technic.
Billy C. Best, B.S., D.D.S., M.S., Instructor in Pedodontics.
Richard E. Bradley, B.S.D., D.D.S., M.S., Assistant Professor of Periodontics (Chairman of Department).
Joseph Bell Burt, Ph.D., Dean of the College of Pharmacy and Professor of Pharmacy.
Robert M. Burton, B.S., D.D.S., M.S., Instructor in Pedodontics.
Martin Ciebien, D.D.S., Instructor in Periodontics and Prosthodontics.
Paul M. Conland, D.D.S., Instructor in Oral Surgery.
Paul Leon Deines, D.D.S., Instructor in Operative Dentistry.
Clarence K. Elliott, B.A., M.D., Adjunct Professor of Pedodontics.
Warren E. Engelhard, Ph.D., Associate Professor of Microbiology.
Edward I. Fry, B.A., M.A., Ph.D., Assistant Professor of Anthropology; Special Lecturer in Graduate Pedodontics and Orthodontics.
Burdette L. Gainsforth, D.D.S., M.S., Associate Professor of Orthodontics.
Carl E. Georgi, Ph.D., Professor of Microbiology (Chairman of Department).
Robert D. Gibson, B.S., M.S., Ph.D., Dean of the College of Pharmacy, Professor of Pharmacology.
Donald C. Haack, B.S., M.S., Associate Professor of Engineering Mechanics, College of Engineering, and Special Lecturer in Graduate Orthodontics.
John D. Hayes, Laboratory Technician in Prosthodontics.
Kenneth Eugene Holland, B.S., D.D.S., Assistant Professor of Orthodontics (Chairman of Department).

- Bert Leslie Hooper**, D.D.S., Dean Emeritus of the College of Dentistry.
- Garth A. James**, B.S., M.S., Assistant Professor of Endodontics.
- Ralph Leonard Ireland**, D.D.S., B.S., M.S., Dean of the College of Dentistry and Professor of Pedodontics.
- Robert B. Johnston**, Ph.D., Assistant Professor of Chemistry.
- Donald Alfred Keys**, B.A., D.D.S., Professor of Operative Dentistry. (Chairman of Department).
- Alvin E. Kleitsch**, B.S., D.D.S., Instructor in Oral Surgery.
- Ray Mestre Knapp**, D.D.S., Professor of Oral Diagnosis and Treatment Planning, Director of Clinical Coordination (Chairman of Department).
- Jack Marshall Knodle**, B.S., D.D.S., Assistant Professor of Prosthodontics.
- William Swallow Kramer**, D.D.S., B.S., M.S., Professor of Pedodontics (Chairman of Department of Pedodontics).
- Earl L. Lampshire**, B.S., D.D.S., M.S., Associate Professor of Pedodontics.
- Victor Eugene Lofgreen**, B.S., D.D.S., Instructor in Periodontics (Clinical).
- Leland Merle Lynn**, B.S., D.D.S., Associate Professor of Fixed Denture Prosthesis (Chairman of Department).
- Darrell James McCabe**, D.D.S., B.S., Instructor in Operative Dentistry.
- Benjamin W. McCashland**, Ph.D., Assistant Professor of Physiology.
- Thomas Lawrence McKee**, D.D.S., M.S.D., Instructor in Orthodontics.
- James R. Maitoon**, B.S., M.S., Ph.D., Assistant Professor of Chemistry.
- Dwight D. Miller**, A.B., Ph.D., Professor of Zoology.
- Harold B. Miller**, B.S., M.D., Lecturer in Oral Pathology.
- Samuel Douglas Miller**, M.B., M.D., Associate Professor of Anesthesiology.
- Richard Y. Morita**, B.S., M.S., Ph.D., Associate Professor of Microbiology.
- Roland F. Mueller**, M.D., Director of Dental Clerkship.
- Francis D. Murphy**, D.D.S., M.S., Assistant Professor of Orthodontics.
- Cecil F. Parker**, A.B., LL.B., Instructor in Dental Jurisprudence.
- Donald Metcalfe Pace**, Ph.D., Professor of Physiology (Chairman of Department).
- Harlan Louis Papenfuss**, A.B., M.D., M.S. in Medicine, Instructor in Pathology.
- James Robert Plihal**, D.D.S., B.S., Instructor in Operative Dentistry.
- Eugene F. Powell**, A.B., A.M., Ph.D., Associate Professor of Histology and Embryology.
- Quentin Q. Quay**, D.D.S., Instructor in Practice Administration.
- George W. Reichenbach**, D.D.S., Instructor in Pedodontics.
- Vernon W. Rinne**, B.S., D.D.S., Assistant Professor of Operative Dentistry.
- William Ivan Rofton**, D.D.S., Director of Dental Clerkships.
- Ed. W. Simpson**, B.S., M.P.H., Lecturer in Public Health Dentistry.
- Chester F. Singer, Jr.**, B.A., D.D.S., M.S., Assistant Professor of Oral Surgery.
- Ray Henry Steinacher**, B.S., M.S., D.D.S., Associate Professor of Prosthodontics (Chairman of Department).
- Robert M. Stemm**, D.D.S., M.S., Assistant Professor of Fixed Denture Prosthesis.
- Frank A. Stewart**, B.S., M.D., Assistant Professor of Pediatrics.
- Lee Stover**, A.B., M.D., Assistant Professor of Internal Medicine.
- Frank Harold Tanner**, M.D., Associate Professor of Pathology.
- Thomas L. Thompson**, A.B., M.S., Ph.D., Associate Professor of Microbiology.
- Donald Todd Waggener**, D.D.S., Professor of Oral Pathology (Chairman of Department); Co-Ordinator of Cancer Instruction.
- E. Roger Washburn**, Professor of Chemistry and Chemical Engineering (Chairman of Department).
- W. Wallace Webster**, B.S., D.D.S., Professor of Oral Surgery, Intern Supervisor (Chairman of Department).
- Sam Weinstein**, D.D.S., M.S., Associate Professor of Orthodontics (Chairman of Department).
- Elvin Gould Wilkinson**, B.S., D.D.S., M.S., Assistant Professor of Pedodontics.
- Hoyt Yowell**, B.S., M.S., Instructor in Anatomy.

Guest Lecturers

Harry Sicher, M.D., Professor of Anatomy and Histology, Loyola University, School of Dentistry; **Norman C. Carlson**, B.S., D.D.S.; **Robert F. Krejci**, B.S., D.D.S.; **Bernard J. Moran**, B.S., D.D.S.; **Robert W. York**, B.S., D.D.S.

Standing Committees

- Executive Committee**—Dr. Ireland, Chairman; Dr. Kramer, Secretary
Drs. Steinacher, Lynn, Knapp, Webster,
Waggener, Bradley, Keys
- Admissions**—Dr. Kramer, Chairman, Dr. Lynn, Secretary
Drs. Rinne and Steinacher
- Student Advisory**—Dr. Kleitsch, Chairman, Dr. Rinne, Secretary
Drs. Bradley, Knodle, McCabe
- Curriculum**—Dr. Waggener, Chairman, Dr. Stemm, Secretary
Drs. Ireland, Knapp, Kramer
- Library**—Dr. Bradley, Chairman, Dr. McCabe, Secretary
Dr. James, Miss Anderson
- Student Loans and Scholarships**—Dr. Stemm, Chairman, Drs. Lynn and Knodle
- Public Relations**—Dr. Keys, Chairman, Drs. Webster, Holland, Tanner
- Graduate Programs**—Dr. Ireland, Chairman
Drs. Weinstein, Bradley, Kramer
- Postgraduate Education**—Dr. Waggener, Chairman, Drs. Ireland, Kramer, Lynn
- Hospital Affiliations**—Dr. Webster, Chairman
Bryan Memorial Hospital—Dr. Webster
Lincoln General Hospital—Dr. Rotton
St. Elizabeth Hospital—Dr. Waggener, Dr. Mueller
- Predental Adviser**—Dr. Steinacher; **Assistant Adviser**—Dr. Knodle
- Director of Aptitude Tests**—Dr. Keys; Dr. McCabe, Assistant

THE COLLEGE OF DENTISTRY

The College of Dentistry is fully approved by the Council on Dental Education of the American Dental Association and is a member of the American Association of Dental Schools.

Admission to the College of Dentistry is on a selective basis. Selection is based on the quality of the applicant's work in liberal arts college, his character, his personality, and his aptitude for and interest in the study of dentistry.

PREDENTAL REQUIREMENTS

High School	Units
English	3
Algebra	1
Geometry	1
Electives (English, foreign languages, mathematics, natural sciences, social studies)	11

Removal of Deficiencies

A student who has not studied algebra or plane geometry in high school must make up the deficiency by taking these subjects through the University Extension Division. Credits so earned may not be applied toward graduation; they can be used only to meet entrance requirements.

A student who is not a high school graduate or who is a graduate of a nonaccredited high school may not apply toward graduation any college hours earned to make up entrance requirements.

College

Applicants must successfully complete a minimum of 64 hours in a recognized liberal arts college. A maximum of 4 hours in physical education or military science may be used toward this requirement. These 64 hours should be completed by the end of the academic year prior to the desired fall term enrollment.

Required subjects are:

- 2 semesters in English composition
- 2 semesters in zoology or biology (zoology preferred)
- 2 semesters in general elementary chemistry
- 2 semesters in physics
- 1 or 2 semesters in organic chemistry (to include aromatic and aliphatic compounds)

Some elective subjects are:

Anthropology	Mathematics
Art	Philosophy
Business Law	Political Science
Business Organization	Psychology
Economics	Scientific Greek
English	Sociology
Foreign Language	Speech
History	Zoology

Although hourly requirements are not stated, generally the student will complete 6 hours in English composition, 6 hours in zoology or biology, 8 to 10 hours in physics, 6 to 10 hours in inorganic chemistry, and 4 to 8 hours in organic chemistry. All science courses must include both class and laboratory work.

Semester hours in any subject which is part of the College of Dentistry curriculum cannot be used in satisfying the admission requirements.

TRANSFER CREDIT

Transfer students must have an average grade of at least 4. or C where the lowest passing grade is D, in order to be eligible for admission. Before any student can be considered for admission, he must file in the Office of the Registrar an official transcript of work already completed which shows also that he is in good standing. College credit earned at an accredited college can usually be transferred to the University of Nebraska College of Arts and Sciences, except that courses in which grades of D have been earned may not be transferred.

Transfer credit does not, however, count toward the grade average.

2-Year Predental Course (College of Arts and Sciences)

First Year			
<i>First Semester</i>	<i>Hours</i>	<i>Second Semester</i>	<i>Hours</i>
Chemistry 1.....	5	Chemistry 2.....	5
Zoology 1.....	3	Zoology 2.....	3
*English 3.....	3	*English 4.....	3
Military Science.....	1	Military Science.....	1
Electives.....	3	Electives.....	4
	15		16
Second Year			
Chemistry 131.....	4	Physics 2.....	5
Physics 1.....	5	Military Science.....	1
Military Science.....	1	Electives.....	10
Electives.....	7		
	17		16

APTITUDE TESTS

All students making application to the College of Dentistry are required to take the aptitude tests provided by the Council on Dental Education of the American Dental Association. Further information may be requested from the College of Dentistry.

GENERAL INFORMATION

Course Leading to the Degree of Bachelor of Arts or Bachelor of Science and Doctor of Dental Surgery.—By completing the group requirements of the College of Arts and Sciences and one minor under Plan A (or two minors under Plan B) and by using the subjects of the first year of the dental course as a major, the student is enabled to receive the degree of Bachelor of Arts or Bachelor of Science in the College of Arts and Sciences at the end of four years.

Group Requirements

The purpose of the group requirements is to provide a good introduction to the various types of knowledge upon which our civilization is founded. The requirements are divided into six major classifications, known as Groups A, B, C, D, E, and F.

A. English Composition.....	6 hours
B, 1, 2; or 3, 4	
B. Humanities—Fine Arts, Literature, Philosophy.....	12 hours

* English B, 1 and 2 may be substituted for 3 and 4.

At least 6 hours must be presented in literature from courses so designated in the Departments of Classics, English, Germanic Languages, and Romance Languages. Of these 6 hours a minimum of 3 must be taken in American or English literature. A maximum of 6 hours may be presented from Art (29, 31), Music (177, 178), Philosophy (courses other than logic), Speech (135, 136).

The following courses may not be used to fulfill the Group B requirement: in Art, Music, Speech, all courses not listed above; in English, all courses not now listed under Literature or Comparative Literature; in language departments all courses numbered under 100; Latin 116, 121, 219, 220, 223, 244; Greek, all courses below 200; German 107, 108, 109, 110; Scandinavian 231; French 113, 114, 119, 219, 220; Spanish 153, 154, 155, 223, 224.

No course may be used to fulfill both the Group B and the Group C requirements.

C. Languages, Classical and Modern..... 3-18 hours

<i>High School Language</i>	<i>Group Requirement</i>	<i>(or)</i>	<i>Combined Group and Entrance Requirement</i>
1 semester or none	16 hours in one language		18 hours in one language
2 semesters	11 hours in same language		12 hours in same language
3 semesters	11 hours in same language		11 hours in same language
4 or 5 semesters	6 hours in same language		6 hours in same language
6 semesters or more	3 hours in same language		3 hours in same language

A student who has entered the college with an entrance deficiency in language may remove it and meet the group requirement in either of two ways: (1) by presenting 2 hours in addition to the basic requirement of 16 hours or (2) by completing French 14, German 4, Spanish 54, or Latin 6 with a grade of 6 or above. In (2) the college accepts the grade of 6 in the fourth-semester course in place of the additional hours.

A transfer student with 11 or 12 semester hours of accepted credit in French, German, Latin, or Spanish has two choices: (1) to enroll in French 13, German 3, Latin 5 or Spanish 53 and then to continue with a fourth-semester course; (2) by consultation with the chairman of the department to enroll in French 14, German 4, Latin 6 or Spanish 54. If the student follows the second plan and makes a grade of 6 or better, the language requirement will have been fulfilled.

The following courses may not be used to meet this requirement: Classics 31, 73, 74, 75, 115, 116, 117, 281, 282, 283; Germanic Language 11, 12, 31, 32; Romance Language 1, 2, 5, 6, 21, 22, 61, 62; Russian 1, 2.

Every candidate for a degree must present a minimum of 3 college semester hours in a foreign language regardless of semester hours completed in high school. A literature course presented in fulfillment of this requirement may not count in the fulfillment of the group requirement in humanities.

A student from a foreign country who has demonstrated acceptable proficiency in his native language is exempted from the Group C requirement without credit toward a degree.

D. Logic or Mathematics..... 3 hours

One unit of algebra and one of geometry are included in the entrance requirements. A student who presents a third unit in mathematics composed of courses in one or two of the following—algebra, geometry, trigonometry—is exempted from the Group D requirement, provided that

he qualifies for registration in Mathematics 14.

E. Natural Sciences 6-12 hours

Biology, botany, chemistry, earth science, geology, microbiology, physics and zoology.

This requirement may be met (a) by 10 hours in one science, or (b) by 6 hours in each of two sciences.

If biology is selected, the 10-hour requirement may be met by taking 4 hours of approved courses in botany, microbiology, or zoology, in addition to 6 hours of biology.

Students presenting two semesters of chemistry from high school may fulfill this requirement by taking Chemistry 3 and 4 (6 hours).

Only 6 hours are offered in earth science. To complete the science requirement another 6-hour science sequence must be taken. Geology 1 and 2 or Geology 96 and 97 may not be used with earth science to meet this requirement.

The following courses may not be used to satisfy the requirement: Zoology and Physiology 141 and 143 (except for students majoring in journalism or social welfare).

F. Social Sciences 12 hours

A 6-hour sequence must be presented from one department from each of two of the following divisions:

1. History
2. Anthropology, Psychology, Sociology
3. Economics, Geography, Political Science

Psychology 181 may not be used. From Economics only courses listed under Economic Theory or Economic History may be used. From Geography only 11, 12, 164, 167, 168, 169, 170 may be used; preferably 11 or 12 should be the first course. In anthropology, psychology, sociology, economics, and political science, the beginning course and any other course not excluded above constitutes a sequence. In history, 1 and 2, 91 and 92, are typical sequences.

Majors and Minors.—The subjects of the first year of the dental course may be used as a major. In addition, the student is required to complete one or two minors.

The Minor—Plan A.—If only one minor is completed, the requirements are the following:

Anthropology, 18 hours.

Art, 18 hours, including Art 1 (3 hours), 2 (3 hours), 11, 12, 3 (2 hours) or 5 (2 hours), 29, and 31.

Botany, 18 hours beyond Botany 2 or 3 or Biology 2, including Botany 103, 114, 119; Zoology 141 or Agronomy 105; and 3 hours of Botany at the 200 level.

Chemistry, 12 hours beyond Chemistry 2 or 4.

Economics, 18 hours.

English, 24 hours, including 9 hours of literature at the 200 level.

Geography, 18 hours, including 10 hours at the 100 or 200 level. (Earth Science 1 may be used.)

Geology, 22 hours.

German, 12 hours at the 100 or 200 level, including at least 2 hours at the 200 level.

Greek, 12 hours at the 100 or 200 level, excluding Greek 115, 117, 231, 233.

History, 18 hours, including a 6-hour sequence in United States history, a 6-hour sequence in other than United States history, and two 3-hour courses at the 200 level.

Journalism, no minor.

Latin, 12 hours at the 100 or 200 level, excluding Classics 116, 232, 233.

Mathematics, 116 or 132, and two courses (6 hours) numbered above 120, exclusive of Mathematics 145.

Microbiology, 12 hours beyond Microbiology 111.

Music, 18 hours—6 hours of consecutive courses in minor applied classes, 2 hours of related ensemble courses, Music 71, 72, 77, 78, and 177 or 178.

Philosophy, 18 hours.

Physics, 12 hours beyond Physics 2 or 104, including three courses at the 200 level.

Political Science, 18 hours, including Political Science 10; 153, 280, or 282; and 251, 252, 263, or 264.

Psychology, 18 hours, including Psychology 190; 251, 261, 262, or 293; and 280, 287, or 288.

Romance Languages, 12 hours in one language at the 100 or 200 level, including 3 hours at the 200 level.

Sociology, 18 hours, including Sociology 53.

Speech, 18 hours, exclusive of Speech 9, 11, and 111, and including Speech 14, 105, or 109.

Zoology and Physiology, 21 hours (Biology may be included).

The Minor—Plan B.—If two minors are completed, the requirements in each are the following: Air, Military, or Naval Science, 16 hours; Anthropology, 12 hours; Art, 12 hours; Botany, 10 hours beyond Botany 2 or 3 or Biology 2; Chemistry, 6 hours beyond Chemistry 2 or 4; Economics, 12 hours; English, 18 hours; Entomology, 6 hours numbered above 200; Geography, 12 hours; Geology, 16 hours (Earth Science may be used if Geology 1 and 2 are not); German, 6 hours numbered above 100; Greek, 16 hours, excluding Greek 73, 115, 117, 281, 283; History, 12 hours; Journalism, no minor; Latin, 6 hours numbered above 100, excluding Classics 116, 282, 283; Mathematics, Mathematics 115; Microbiology, 6 hours beyond Microbiology 111; Music, 12 hours (4 hours of consecutive courses in minor applied classes, 2 hours of related ensemble courses, and 71 and 72); Philosophy, 12 hours; Physics, 6 hours beyond Physics 2 or 104; Political Science, 12 hours; Psychology, 12 hours; Romance Languages, 6 hours, in one language, numbered above 100; Sociology, 12 hours; Speech, 12 hours; Zoology and Physiology, 10 hours beyond Zoology 2 or 6 or Biology 2.

In support of certain majors, minors outside the College of Arts and Sciences are permitted under Plan B: Agricultural Economics, 12 hours; Architecture, 12 hours; Business Organization, 12 hours; Civil Engineering, 16 hours; Dance (consult adviser); Home Economics (Textiles and Design), 12 hours; Pharmacology, 12 hours; Physical Education for Women, 12 hours exclusive of practice courses.

ADMISSION TO COLLEGE OF DENTISTRY

Formal application must be made on regular blanks which may be obtained by writing to the Admissions Committee of the College of Dentistry, Andrews Hall.

An applicant should submit an official transcript of courses and grades from each college or university in which he has completed pre dental requirements.

A record of the Aptitude Test score must be submitted.

A personal interview is urged but not necessarily required.

A student may make application when he has completed two semesters of pre dental work (30 semester hours). His application must be accompanied by a statement showing courses for which he is currently registered or which he will complete prior to the beginning date of the class he desires to enter. However, he must complete the specific minimum requirements (including two semesters in English composition, two semesters in zoology or biology, two semesters in inorganic chemistry, two

semesters in physics, and one semester in organic chemistry) by June of the year in which he desires to enter the College of Dentistry.

All aliens, regardless of residence, but excluding persons who have commenced their naturalization process, are charged an application fee of \$5.00. This fee is nonrefundable; however, if the applicant enrolls, this fee will apply towards payment of tuition and fees. This fee should accompany the application for admission.

When a student receives notice that he has been accepted for admission to the College of Dentistry, he is required to make a deposit of \$100, which will be applied to his first semester registration fee. It will be forfeited if he fails to register for that session.

After a student is admitted, his credentials are filed in the Registrar's Office and become the permanent property of the University.

Ex-servicemen are urged to get in touch with the Office of Veterans Affairs, Administration Building 503, if they plan to attend the College of Dentistry under the provisions of one of the G. I. Bills.

FEES AND EXPENSES*

All fees must be paid to the Comptroller at the time of registration. No person may enroll in or attend classes until his fees are paid. The following fees will remain in force for the year unless changed by the Board of Regents prior to registration.

Each resident student who enrolls in the College of Dentistry pays a fee of \$425 per semester, which covers the major school expenses for that period.

Each nonresident student is required to pay, in addition, a nonresident fee of \$120 per semester.

A fee of \$15 per student is charged for enrollment in each Summer Session. (No additional nonresident fee is charged.)

TEXTBOOKS, INSTRUMENTS, AND MATERIALS

All required textbooks, dental instruments and materials are loaned for the student's use during his four-year dental college training. As these items become needed for the various courses, they are issued to the student.

If any issued item is lost or damaged beyond usefulness, the student must make replacement at his own expense. If for any reason additional supplies become necessary, the student must pay for the needed item or items.

Upon completion of the dental course and the conferring of the D.D.S. degree, all textbooks and instruments then become the property of the student.

Pens, pencils, notebooks and paper are not furnished by the College. (Examination "blue-books" will be furnished by the College.) Each student must provide himself with a minimum of four dental operating gowns of a type specified by the College and sufficient laboratory gowns as required in the laboratory courses; he must maintain them in clean, presentable condition at his own expense.

MISCELLANEOUS FEES

The following incidental expenses are not included in the \$425 semester fee:

Late registration, minimum	\$ 3.00
Additional for each week after the first week of classes	1.00

* Fees are subject to change.

Transcript—one copy furnished free	
Each additional copy.....	1.00
Degree in absentia.....	10.00
Special examination, each course.....	1.00
Re-examination, each course.....	3.00
Advanced standing examination, per credit hour.....	6.00
Audit fee, per credit hour.....	3.00
Abstract fee (Ph.D. degree).....	25.00
Thesis binding (Master's and Ph.D.).....	5.00
Special examination, each course.....	1.00
Certificate	1.00
Cap and gown rental:	
Bachelor's cap and gown.....	3.00
Master's cap and gown.....	3.50
Master's hood.....	3.50
Ph.D. cap and gown.....	4.00
Ph.D. hood.....	4.00
LL.D. cap and gown.....	3.00
LL.D. hood.....	3.00
D.D.S. cap and gown.....	4.00
D.D.S. hood.....	4.00

(Fees are subject to change)

Graduate Courses in Pedodontics, Periodontics and Orthodontics for advanced degrees. (For description, fees, etc., see the Bulletin of the Graduate College.)

CLASSIFICATION OF RESIDENT AND NONRESIDENT STUDENTS

A student's right to classification as a resident for purposes of registration in a state educational institution must be determined under the provisions of Section 85-502, Revised Statutes of 1943, Reissue of 1958.

Any student who has been classified as a nonresident student who believes he can qualify as a resident may secure from the University Comptroller a residency application form and, when it is properly filled out, file such form with the Comptroller for review and ruling. The form must be filed in the Office of the Comptroller *before the end of the ninth week* of the term for which the tuition fee was charged. For the summer session, the deadline is the *end of the third week*.

The exact wording of the state law on residency is given on the application form.

FEE REFUNDS

A student who withdraws from the University during any term for which he is registered is entitled to claim a refund of a portion of his fees, as set by the Comptroller of the University, unless he withdraws after the thirty-fifth calendar day of the regular term. The amount refunded depends upon the elapsed time from the beginning of the term to the effective date of the withdrawal or drop.

As explained previously, the textbooks, dental instruments and materials issued for student use are merely loaned during the dental training period. Should a student withdraw from school prior to graduation with a D.D.S. degree, all books, instruments, and unused supplies must be returned to the dental store before any refunds will be made.

For the summer session there will be no refund.

A student having completed any course (or courses) of the dental curriculum elsewhere than at the scheduled time in the dental course will receive no deduction from the stated semester fee, even though the course (or courses) may be accepted for credit toward his D.D.S. degree.

SCHOLASTIC REGULATIONS

Class Attendance.—No student may be admitted later than ten days after the opening of the fall session. It is very much to the advantage of each student to register and be in attendance at his classes at the very outset of each semester of work. No credit is granted to any student for matriculation or attendance where such attendance is less than one semester in duration. Moreover, each student must remain in continuous attendance during each semester for which credit is sought. If for any reason a student's program is discontinued and he subsequently returns to the University, he must satisfy all requirements for graduation as they may exist at the time of his re-entrance upon his studies.

Attendance Requirements.—Attendance at less than 80 per cent of the scheduled lectures and recitations, or 85 per cent of the scheduled laboratory and clinical hours, constitutes a failure in any course, and will be so reported. Temporary leave of absence may be obtained from the Dean of the College, the Associate Dean of Student Affairs, or the Dean of the Division of Student Affairs. However, such leave does not excuse a student from meeting all course requirements.

Class Standing and Examinations.—The standing of a student in any course is determined by the instructor in charge of the subject through examination, personal contact, and observation of routine work. The passing grade and weighted average for subjects of the first and second dental years is 4, and for the third and fourth dental years is 5.

Credit will not be allowed in any of the following courses unless a passing grade is made in both lecture and laboratory portions of the course: Fixed Denture Prosthesis 31, 32, 73, 74; Operative Dentistry 11, 12, 51; Prosthodontics 34, 71.

Final examinations are held at the end of each semester. Other examinations may be held at the option of the instructor. Individual examinations are allowed only after the regular examinations have been completed and then only with the permission of the instructor.

A course which for a good reason has not been completed, may, if of passing grade, be marked "Incomplete." Unless an incomplete is removed by the eighth week of the following semester, it becomes a failure.

A failed subject must be absolved by re-registration in and satisfactory completion of the subject.

HONORS

The Honors Convocation is held annually for the purpose of giving recognition to students who excel in scholarship. The printed program of the ceremonies gives the names of the seniors who rank in the upper three per cent of their class, the names of students who have been on the Honor Lists since matriculation as freshmen, and the names of the students who rank in the upper ten per cent of each of the four classes of each college of the University.

Alpha Alpha chapter of Omicron Kappa Upsilon, the dental honorary fraternity, was chartered at the University of Nebraska College of Dentistry in May, 1929. Election to this honor society is based upon scholarship, conduct, and data gathered by the faculty and recorded on a character analysis chart.

DEGREES

APPLICATION FOR DEGREE

A student expecting to receive a certificate or a diploma must make proper application for such certificate or for admission to candidacy

for a degree. The application must be made at the Office of the Registrar, Administration Building 208. No student is recommended for a degree who has not been reported at the beginning of his last semester of attendance as being within 18 hours of meeting the requirements for the degree for which application is made.

DEGREES

1. DOCTOR OF DENTAL SURGERY

The candidate for this degree must have completed the prescribed curriculum, passed the necessary examinations, and received the required credits therein. He must also have met all the general scholastic requirements of the University.

2. and 3. COMBINED DEGREES OF BACHELOR OF ARTS OR BACHELOR OF SCIENCE AND DOCTOR OF DENTAL SURGERY

By completing the group requirements of the College of Arts and Sciences and two minors (or one major) and by using the subjects of the first year of the dental course as a major, the student is enabled to receive at the end of four years the degree of Bachelor of Arts or Bachelor of Science in the College of Arts and Sciences. For group requirements consult the Bulletin of the College of Arts and Sciences.

4. MASTER OF SCIENCE IN DENTISTRY

Graduate work in pedodontics, periodontics and orthodontics, leading to the degree of Master of Science in Dentistry, is offered for those who wish to become proficient in the practice of these specialties. The courses are designed to meet the needs of the dentist who desires to devote his entire time to the practice of pedodontics, periodontics or orthodontics, or who wishes to broaden his knowledge as a foundation for teaching or research.

SCHOLARSHIPS

A number of scholarships have been provided for worthy students enrolled in The University of Nebraska. Many of these awards have been made possible by gifts and grants from individuals and organizations through the auspices of the University of Nebraska Foundation.

Except for those scholarships set up for incoming Nebraska freshmen or for students from other Nebraska colleges and universities, awards are not available until at least 24 hours of credit have been earned at the University of Nebraska.

Although certain scholarships have their own special qualifications, most scholarships require that:

1. The student must present a good scholastic record. In most cases an over-all grade average of 6.0 or above is required.
2. The student must be worthy of financial assistance. Financial need is an important consideration in many scholarships. Even where financial need has been established, the applicant must show by his academic progress and by good conduct that he is worthy of such aid.

Scholarship applications from resident students are usually accepted in February of each year, the awards being made in the late spring or early

summer for the following academic year. Application forms may be obtained at the Office of the Dean or the Office of Scholarships and Financial Aids. Applications are not accepted from students who have "in-completes" on their records.

It is the practice to pay one-half of the award at the beginning of each semester.

***Donald Walters Miller Scholarship**

Donor: Mrs. Donald Walters Miller, Lincoln, Nebraska

Qualifications: Sophomores or above, or graduate students on recommendation of College. Awards made on basis of scholastic ability, educational and professional objectives, character, temperament and financial need. Candidates must be registered in the University of Nebraska at time of application.

Value: Three or four scholarships or fellowships at \$1,000 each.

Apply by March 1 to the Dean of the College of Dentistry and inquire about letters of application and recommendation.

***Richard R. Ross Memorial Fellowship in Pedodontics**

Donor: Elks Lodge No. 80 of Lincoln, Nebraska

Value: \$1,200.

Qualifications: A graduate student working toward a graduate degree in dentistry with a major in pedodontics. Apply to the Dean of the College of Dentistry.

***Patterson-Hettinger-Carey Fellowship**

A grant of \$600 is provided annually by the M. F. Patterson Dental Supply Company for use in support of research and graduate study. Fellowships for graduate students in dentistry are available under this grant. This fellowship does not carry remission of tuition fees.

The University of Nebraska Upperclass Regents Scholarship

Donor: The University of Nebraska through its Board of Regents

Qualifications: Sophomore, junior and senior students in Dentistry.

Awards made on basis of high scholarship.

Value: \$100 each

Apply to Committee on Scholarships and Financial Aids.

STUDENT LOAN FUNDS

Student loans at The University of Nebraska are available to qualified students who are enrolled in the University and who are in need of financial assistance to continue their college education. Loans are made from some 80 separate funds which have been established by organizations, firms, and individuals, and by the National Defense Education Act of 1958. Most of these funds are in the custody of the Board of Regents or the University Foundation and are not regarded as a part of the University's resources. Loan funds are administered in accordance with the wishes of the donors and the policies adopted by the Committee on Scholarships and Financial Aids.

Although loans may be granted from any one of several University loan funds, the following loan funds are specifically designated for the College of Dentistry and are administered as indicated:

* Funds in the custody of the University of Nebraska Foundation.

Those under the administration of the General Student Loan Committee:

1. The Dr. Clyde W. Davis Student Loan Fund.
2. The W. K. Kellogg Student Loan Fund.

Those under the administration of the College of Dentistry Student Loan Committee:

1. The Lewis A. and Anna F. Seberg Student Loan Fund.
2. The Wayne F. Larrabee Memorial Fund.
3. The College of Dentistry Alumni Student Loan Fund.
4. The American Dental Trade Association Senior Student Loan Fund.
5. The S. J. Kramer Memorial Fund.

Further information regarding these loans can be obtained from the Office of the Dean or from the Chairman of the College of Dentistry Student Loan Committee.

PROFESSIONAL COURSE IN THE COLLEGE OF DENTISTRY

PROFESSIONAL COURSE—133 SEMESTER HOURS OF CREDIT

First Year

First Semester

Chemistry 246. Biochemistry.—Chemistry and metabolism of the proteins, carbohydrates and lipids. Enzymes. Biological oxidations. *Prerequisite:* Chem. 131 or 231. Lect. 3, lab. 4. 4 cr. Mattoon.

Dental Orientation and Ethics 1.—To motivate students to recognize and fulfill their social and moral responsibilities to their patients, their civic responsibility to the community, and their ethical obligation to the profession of dentistry. Lect. 1. 0 cr. Ireland, Staff.

Fixed Denture Prosthesis 31. Dental Materials.—The study of materials used in dentistry. Particular emphasis is placed on chemical and physical properties, indications for usage, limitations, and methods of manipulation. Modified and simplified dental structures constructed in the laboratory. Lect. 2, lab. 3. 2 cr. Stemm.

Operative Dentistry 11. Oral Physiology and Dental Anatomy.—Functions of the oral structures. The anatomy of the primary and the permanent teeth is studied and their forms carved. Lect. 1, lab. 3. 2 cr. Keys.

Zoology 105. Human Anatomy for Dental Students.—Gross anatomy. The skeleton; dissections of the integument, fascia, nerves, blood vessels, and musculature of back; the meninges and spinal nerve cord; superficial structures of head and neck; brain and meninges; and cervical plexus. *Prerequisite:* Zool. 1 and 2 or equivalent. Lect. 2, lab. 8. 4 cr. Yowell, Anderson.

Zoology 109. Histology and Embryology.—A course dealing mainly with microscopic anatomy of mammalian organs. Brief consideration is given to embryology with particular reference to origin of tissues. Lect. 2, recitation 1, assigned readings, lab. 6. Dental or other technical students only. *Prerequisite:* Zool. 1 and 2 or equivalent. 5 cr. Powell, Anderson.

Second Semester

Dental Literature and History 2.—Guidance in the selection of current dental literature. Instruction in history of the profession, familiarizing the student with the development and progress of dentistry and those responsible for it. Lect. 1. 1 cr. Arnot.

Fixed Denture Prosthesis 32. Dental Material.—FDP 31 cont'd. Lect. 1, lab. 3. 1 cr. Stemm.

Operative Dentistry 12. Oral Physiology and Dental Anatomy.—Op. Dent. 11 cont'd. Lect. 1, lab. 6. 3 cr. Keys, Kramer.

Oral Pathology 20. Oral Histology.—A study of the composition and microscopic anatomy of the teeth and their supporting tissues. Lect. 1, lab. 2. 2 cr. Anderson.

Prosthodontics 34. Complete Denture Prosthesis.—A lecture and laboratory course in the materials and technical procedures of complete denture construction. Lect. 2, lab. 8. 4 cr. Steinacher, Hayes.

Zoology 106. Human Anatomy for Dental Students.—Zool. 105 cont'd. Dissection of thorax, axilla, brachial plexus; certain joints; deep parts of head and neck; orbit and eye; ear; and upper extremity. General study of abdomen and lower extremity. *Prerequisite:* Zool. 105. Lect. 2, lab. 8. 4 cr. Yowell, Anderson.

Second Year

First Semester

Fixed Denture Prosthesis 73. Dental Ceramics.—Fabrication of porcelain and acrylic resin veneer crowns and inlays; construction of porcelain units for partial dentures; staining and coloring processes. Lect. 1, lab. 3. 2 cr. Lynn.

Microbiology 111. General Microbiology.—An introduction underlying the activities of bacteria and other microorganisms. For general, Dental, Premedical, and Pharmacy students; laboratory work arranged to meet the needs of each specific group. *Prerequisite:* 1 yr Chemistry and 1 yr Biological Science. Lect. 3, lab. 6. 5 cr. I or II. Georgi, Staff.

Operative Dentistry 51. Operative Technology.—The fundamental principles of operative dentistry. Instruction is given in classification of cavities, instrumentation, cavity preparation, and the indication, selection, and use of various restorative materials. Lect. 2, lab. 6. 3 cr. Rinne, McCabe.

Oral Pathology 61. Oral Roentgenographic Technics.—Study of the development, construction and functions of dental X-ray units. The students are taught technical procedures for exposing dental X-ray films based on the characteristic behavior of

X-rays. These procedures result in the best visualization of all areas of the dental arches for the purpose of diagnostic interpretation of the exposed films. Lect. 1, lab. 3. 1 cr. Waggener.

Periodontology 63.—An introduction to periodontology emphasizing detection and removal of local etiological factors in periodontal disease. Lectures, laboratory and clinical exercises will be used to acquaint the student with technics of oral examination and oral prophylaxis. Lect. 1. 1 cr. Bradley.

Physiology 151. Mammalian Physiology.— Functions of the various organ systems in the mammal as compared to other vertebrates with special emphasis on those of man. This course will cover chiefly the supporting tissues, muscles, nerves, central and autonomic nervous systems, and special senses. Lect. 2, lab. 3. 3 cr. McCashland.

Prosthodontics 71. Removable Partial Denture Prosthesis.—A lecture and laboratory course in the materials and technical procedures of partial denture construction. Lect. 2, lab. 6. 3 cr. Steinacher, Hayes.

Second Semester

Fixed Denture Prosthesis 74. Fixed Partial Denture Prosthesis.—A course in crown and bridge technology. Lect. 2, lab. 6. 4 cr. Lynn, Stemm.

Operative Dentistry 52. Clinical Orientation, Local Anesthesia and Clinical Dentistry.—Beginning infirmity instruction. The student is taught clinical operative and prophylactic procedures and given instruction in problems encountered in clinical practice. Lect. 2, Clinic 3, 3 cr. Rinne, Bradley, McCabe, Plihal and Staff.

Oral Pathology 62. Oral Roentgenographic Interpretation.—A study of the normal, abnormal and pathological changes occurring in the oral and dental tissues as depicted in dental X-ray films. Correlation of tissue changes and their roentgenographic appearance is made. Lect. 1. 1 cr. Waggener.

Oral Pathology 66. Applied Anatomy of the Head and Neck.—Practical application of anatomy of the head and neck with particular reference to local anesthesia, oral infections, surgery and neoplastic diseases. (8 wks.) Lab. 3. 1 cr. Anderson.

Oral Pathology 68. General Pathology.—A study of the general pathological processes with special reference to inflammation, specific tissue reactions, and stressing the practical application of fundamental pathology to the practice of dentistry. The course utilizes material from the museum of pathological specimens and places emphasis on the neoplastic diseases of the mouth and associated structures. Lect. 2, lab. 3. 3 cr. Tanner, H. Miller, Papenfuss.

Physiology 152. Mammalian Physiology.—Physiol. 151 cont'd. Functions of the various organ systems in the mammal as compared to other vertebrates with special emphasis on those of man. This course will cover chiefly the supporting tissues, muscles, nerves, central and autonomic nervous systems, and special senses. Lect. 2, lab. 3. 3 cr. McCashland.

Third Year

First Semester

Fixed Denture Prosthesis 145. Clinical Fixed Partial Dentures.—Clinic 3. 1 cr. Lynn, Stemm.

Operative Dentistry 117. Operative Technology and Clinical Dentistry.—Instruction in gold foil and clinical practice. The restoration of impaired natural teeth to normal function by operative procedures. Lect. 2, Clinic 8. 3 cr. Keys, Rinne, Plihal, McCabe.

Oral Diagnosis 113. Diagnosis and Treatment Planning.—The student is given instruction in oral and roentgenographic examinations with complete charting and recording of all conditions presented by the individual case. Lect. 1. 1 cr Knapp, Waggener.

Periodontology 127.—A study of the tissue changes in diseases of the supporting tissues of the teeth as observed clinically, microscopically and roentgenographically. Causes and treatment of the diseases are stressed. Lect. 1, Clinic 2. 1 cr. Bradley.

Orthodontics 131. Orthodontic Technology.—The manipulation of various types of orthodontic materials, including construction of orthodontic appliances, taking impressions, and making study-casts. Lect. 1, lab. 3. 2 cr. Holland, McKee.

Pedodontics 133. Public Health Dentistry.—Lectures include discussion of public health agencies, organization, administration and function, public health problems, their prevention and control, public health dentistry, dental health problems, causes, results, prevention, dental caries control, education, economics, professional and lay responsibilities. Lect. 1. 1 cr. Kramer, Simpson, Assistants.

Pedodontics 135. Pedodontics and Nutrition.—The course consists of a brief review of embryology, histology and anatomy of the primary teeth; child growth and development; management of the child in the dental chair; examination of the child patient; treatment planning and operative procedures for the primary and young permanent teeth; pulp treatments; space maintenance; fractured primary and permanent teeth, physical diagnosis; diet and nutrition, and parent-child and parent-dentist relationship. Reading assignments will be given to cover the current literature on the subject discussed. Lect. 3. 3 cr. Kramer.

Pharmacology 139. Dental Pharmacology.—Didactic study of the origin, preparations, actions, uses, and toxicology of selected drugs. *Prerequisite:* Physiol. 152. Lect. 2, lab. 3. 3 cr. Gibson.

Prosthodontics 141. Prosthodontics.—Lectures and clinical demonstrations on various denture procedures and problems. Lect. 1. 1 cr. Knodle.

Prosthodontics 143. Clinical Prosthodontics.—Clinic 3. 1 cr. Steinacher, Knodle.

Second Semester

Fixed Denture Prosthesis 146. Clinical Fixed Partial Dentures.—FDP 145 cont'd. Clinic 3. 1 cr. Lynn, Stemm.

Operative Dentistry 118. Clinical Operative Dentistry.—Op. Dent. 117, cont'd. Clinic 6. 2 cr. Keys, Rinne, McCabe, Plihal.

Oral Diagnosis 114. Diagnosis and Treatment Planning.—Oral Diagnosis 113 cont'd. Stimulates the student's independent thinking and appreciation of roentgenographic interpretations as an integral part of diagnosis and treatment planning. Lect. 1. 1 cr. Knapp, Waggener.

Oral Pathology 124. Oral Pathology.—A study of the abnormalities of development and the pathological changes in diseases of the teeth and oral tissues. Clinical, microscopic and roentgenographic findings are correlated. Lect. 1, lab. 2. 2 cr. Waggener, Anderson.

Oral Surgery 126. Pulp Therapy.—A study of the diseases of the pulp and methods of removal, including the treatment and filling of pulp canals. Lect. 1, lab. arr. 1 cr. James.

Periodontology 128.—Continuation of Perio. 127. Students have an opportunity to make practical application in the infirmary of the fundamentals of diagnosis and treatment of periodontal disease. Lect. 1, Clinic 2. 1 cr. Bradley.

Oral Surgery 122. Operating Room Technic.—A course on the fundamental principles and methods of operating room technic armamentarium, and set-up for oral surgery; care and sterilization of surgical instruments and supplies. Lect. 1. 1 cr. Atkinson.

Oral Surgery 134. Oral Surgery.—Introductory course in Oral Surgery, stressing the fundamentals of surgery of the oral cavity. Lect. 1. 1 cr. Kleitsch.

Orthodontics 132. Orthodontics.—Lectures on the growth and development of the face, principles of occlusion and the recognition of the development of malocclusion, with emphasis on the practical interception of such development. Clinical assignments will include simple interceptive orthodontic procedures and appliances that can be used by the general practitioner. Orthodontic examinations and appraisals will be made on all acceptable pedodontic cases and these will be reappraised each year to study their growth and development. Lect. 1, Clinic 3. 2 cr. Holland, McKee.

Pedodontics 136. Clinical Pedodontics.—Student makes complete mouth examination of each child including a prophylaxis and complete mouth radiograms; each case is diagnosed and the treatment planned after which all operative and surgical procedures are carried to completion by the student. Students instruct older children and mothers of young children in the tooth brushing technic. Parents are also informed about other facts concerning the child's dental health. Clinic 3. 1 cr. Kramer, Best, Wilkinson.

Pharmacology 140. Dental Medicine.—A study of the physical and chemical properties, pharmacological action, dosage, and methods of administration and application of medicinal agents used in the treatment of oral disease; agents used in the disinfection of materials and instruments used in dentistry; prescription writing. Lect. 2. 2 cr. Pierson.

Prosthodontics 144. Clinical Prosthodontics.—Prosth. 143 cont'd. Clinic 3. 1 cr. Steinacher, Knodle.

Summer Session

Clinical Practice.—The summer session offers instruction in all phases of clinical practice and it is intended for those students who desire to augment their proficiency in clinical service. Students receiving "Incompletes" in previous clinical courses are urged and may be required to register in this course; credit will be allowed for assignments satisfactorily completed. Clinic hours and Clinic credit, arranged. Staff.

Fourth Year*First Semester*

Fixed Denture Prosthesis 187. Clinical Fixed Partial Dentures.—Lectures include a basic review of crown and bridge technology, more complex fixed partial denture planning, occlusal revision and a review of new or current technics. Lect. 1, Clinic 2. 1 cr. Lynn, Stemm.

Operative Dentistry 153. Operative Dentistry.—Instruction and demonstration in gold foil restorations. Clinic 2. 1 cr. Deines.

Operative Dentistry 155. Clinical Operative Dentistry.—Clinical Practice continued. The student is permitted to work with less supervision and is assigned the more complicated cases. Lect. 1, Clinic 6. 2 cr. Keys, Rinne, McCabe, Plihal.

Oral Diagnosis 159. Clinical Diagnosis and Treatment Planning.—Procedures of clinical diagnosis and treatment planning, including roentgenographic technics and interpretations. Clinic 3. 1 cr. Knapp, Waggener.

Oral Pathology 169. Oral Medicine.—Study of the diseases of certain organs and systems as related to diseases of the mouth, including diagnosis and treatment of diseases of the oral cavity, the teeth and their supporting tissues. Lect. 1, inf. 2. 1 cr. Waggener and Staff.

Oral Pathology 191. Neoplastic Diseases.—A course designed to make the student aware of the responsibility of the dentist for the early diagnosis of malignant diseases of the oral cavity and adjacent structures. Lect. 1, tumor clinic 1. 1 cr. Waggener and Staff.

Oral Surgery 163. Oral Surgery and Hospital Training.—Surgery of the mouth, etiology, diagnosis, and treatment. A junior internship will familiarize a student with hospital routine, care of patients hospitalized for general, as well as for oral diseases, and produce a better understanding of the problems in the fields of medicine and allied professions. Lect. 2. 1 cr. Webster, Kleitsch and Hospital Staffs.

Oral Surgery 165. General Anesthesia.—A consideration of the various general anesthetic agents that are administered by inhalation and by intravenous injection. Lect. 1. 1 cr. S. Miller.

Oral Surgery 167. Clinical Oral Surgery.—Students operate under local or general anesthesia. Observation of, and assistance in, the operating of impactions, cysts, tumors, alveolectomies, sinus and fractures. Clinic 4. 2 cr. Webster, Kleitsch.

Oral Surgery 173. Maxillo-facial Surgery.—A course dealing with maxillo-facial problems that are of interest to the general dentist. Lect. 1. 1 cr. Webster, Stover.

Orthodontics 175.—Orthodontics 132 continued. Lect. 1, Clinic 2. 2 cr. Holland, McKee.

Pedodontics 179. Clinical Pedodontics.—Pedodontics 136 cont'd. Clinic 3. 1 cr. Kramer, Best, Wilkinson.

Periodontics 129. Clinical Periodontics.—Clinical management of periodontal disease. The student will be instructed in some of the more advanced therapeutic procedures used in the treatment of periodontal disease. Clinic 2. 1 cr. Bradley.

Prosthodontics 183. Clinical Prosthodontics.—Clinic 3. 1 cr. Steinacher, Knodle.

Oral Surgery 161. Clinical Pulp Therapy.—Students observe and gain experience in the diagnosis and treatment of diseases of the pulp and periapical region, including removal of the pulp, treatment of and filling of the pulp canal and apicoectomies. Clinic 1. 1 cr. James.

Second Semester

Practice Administration 150.—Professional ethics, business methods, dental records, case presentation, and general management of dental practice. Lect. 1. 1 cr. Quay.

Dental Jurisprudence 190.—A course designed to furnish legal information which is essential and beneficial to the practicing dentist. Professional ethics is included. Lect. 1. 1 cr. Parker.

Fixed Denture Prosthesis 188. Clinical Fixed Partial Denture Prosthesis.—Clinic 2. 1 cr. Lynn, Stemm.

Operative Dentistry 156. Clinical Operative Dentistry.—Op. Dent. 155 cont'd. The student is expected to rely on his own judgment and in most cases may work with less supervision. Clinic 6. 2 cr. Keys, Rinne, McCabe, Plihal.

Oral Diagnosis 160. Clinical Diagnosis and Treatment Planning.—Oral Diagnosis 159 cont'd. Clinic 2. 1 cr. Knapp, Waggener.

Oral Pathology 170. Oral Medicine.—Oral Path. 169 cont'd. Lect. 1, Clinic 2. 1 cr. Waggener and Staff.

Oral Pathology 192. Neoplastic Diseases.—Oral Path. 191 cont'd. Lect. 1, Tumor Clinic 1. 1 cr. Waggener and Staff.

Oral Surgery 164. Oral Surgery and Hospital Training.—Oral Surg. 163 cont'd. Lect. 1. 1 cr. Webster, Kleitsch and Hospital Staffs.

Oral Surgery 166. General Anesthesia.—Oral Surg. 165 cont'd. In addition, each student administers the various anesthetic agents in the surgery clinic. Lect. 1. 1 cr. S. Miller.

Oral Surgery 168. Clinical Oral Surgery.—Oral Surg. 167 cont'd. Clinic 4. 2 cr. Webster, Kleitsch.

Orthodontics 176. Clinical Orthodontics.—The prevention and correction of dento-facial anomalies. Each student will be given clinical assignments in the Clinic. Practical applications of previously demonstrated appliances and comprehensive seminars on growth and development of the head and face. Seminar and Clinic 3. 2 cr. Holland, McKee.

Periodontics 130. Clinical Periodontics.—A continuation of Periodontics 129 with emphasis on the more complicated periodontal involvement. Clinic 2. 1 cr. Bradley.

Prosthodontics 184. Prosthodontics.—Course includes a review of basic prosthetic procedures; cleft palate research and treatment concepts, oral rehabilitation, occlusal equilibration in artificial and natural dentitions, and adjunctive information specific to other prosthetic problems. Lect. 1, Clinic 2. 1 cr. Steinacher, Knodle.

Oral Surgery 162. Clinical Pulp Therapy.—Pulp Therapy 161 cont'd. Clinic 1. 1 cr. James.

COURSES OF INSTRUCTION

In the materials which follow you will find an arrangement of courses by departments of instruction showing course number, title, and instructor.

Non-Departmental Courses

(directed by the Dean)

1. Dental Orientation and Ethics.....	Ireland, Staff
2. Dental Literature and History.....	Arnot
150. Practice Administration.....	Quay
190. Dental Jurisprudence.....	Parker

Chemistry

Professor Washburn, *Chairman*

246. Biochemistry.....	Mattoon
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Clinical Dentistry, Special

Clinical Dentistry, Special.....	Dental Staff
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Fixed Denture Prosthesis

Associate Professor Lynn, *Chairman*

31. Dental Materials.....	Stemm
32. Dental Materials.....	Stemm
73. Dental Ceramics.....	Lynn
74. Fixed Partial Denture Prosthesis.....	Lynn, Stemm
145. Clinical Fixed Partial Dentures.....	Lynn, Stemm
146. Clinical Fixed Partial Dentures.....	Lynn, Stemm
187. Clinical Fixed Partial Dentures.....	Lynn, Stemm
188. Clinical Fixed Partial Dentures.....	Lynn, Stemm

Microbiology

Professor Georgi, *Chairman*

111. General Microbiology.....	Georgi, Staff
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Operative Dentistry

Professor Keys, *Chairman*

11. Oral Physiology and Dental Anatomy.....	Keys
12. Oral Physiology and Dental Anatomy.....	Keys, Kramer
51. Operative Technology.....	Rinne, McCabe
52. Operative Technology, Local Anesthesia, Clinical Dentistry.....	Rinne, Bradley, McCabe, Plihal
117. Operative Technology and Clinical Dentistry.....	Keys, Rinne, McCabe, Plihal
118. Operative Technology and Clinical Dentistry.....	Keys, Rinne, McCabe, Plihal
153. Operative Dentistry.....	Deines
155. Clinical Operative Dentistry.....	Keys, Rinne, McCabe, Plihal
156. Clinical Operative Dentistry.....	Keys, Rinne, McCabe, Plihal

Oral Diagnosis and Treatment Planning

Professor Knapp, *Chairman*

113. Diagnosis and Treatment Planning.....	Knapp, Waggener
114. Diagnosis and Treatment Planning.....	Knapp, Waggener
159. Clinical Diagnosis and Treatment Planning.....	Knapp, Waggener
160. Clinical Diagnosis and Treatment Planning.....	Knapp, Waggener

Oral Pathology

Professor Waggener, *Chairman*

20. Oral Histology.....	Anderson
61. Roentgenology.....	Waggener
62. Roentgenology.....	Waggener
66. Applied Anatomy of Head and Neck.....	Anderson
68. General Pathology.....	Tanner, Miller, Papenfuss

124. Oral Pathology	Waggener, Anderson
169. Oral Medicine	Waggener and Staff
170. Oral Medicine	Waggener and Staff
191. Neoplastic Diseases	Waggener and Staff
192. Neoplastic Diseases	Waggener and Staff

Oral Surgery

Professor Webster, *Chairman*

122. Operating Room Technic	Atkinson
126. Pulp Therapy	James
134. Oral Surgery	Kleitsch
161. Clinical Pulp Therapy	James
162. Clinical Pulp Therapy	James
163. Oral Surgery and Hospital Training	Webster, Kleitsch and Hospital Staff
164. Oral Surgery and Hospital Training	Webster, Kleitsch and Hospital Staff
165. General Anesthesia	Miller
166. General Anesthesia	Miller
167. Clinical Oral Surgery	Webster, Kleitsch
168. Clinical Oral Surgery	Webster, Kleitsch
173. Maxillo-facial Surgery	Webster, Stover

Orthodontics

Assistant Professor Holland, *Chairman*

131. Orthodontic Technology	Holland, McKee
132. Orthodontics	Holland, McKee
175. Orthodontics	Holland, McKee
176. Clinical Orthodontics	Holland, McKee

Pedodontics

Professor Kramer, *Chairman*

133. Public Health Dentistry	Kramer, Simpson, Assistants
135. Pedodontics and Nutrition	Kramer
136. Clinical Pedodontics	Kramer, Best, Wilkinson
179. Clinical Pedodontics	Kramer, Best, Wilkinson

Periodontics

Assistant Professor Bradley, *Chairman*

63. Periodontology	Bradley
127. Periodontology	Bradley
128. Periodontology	Bradley
129. Periodontology	Bradley
130. Periodontology	Bradley

Pharmacology

Professor Gibson, *Chairman*

139. Dental Pharmacology	Gibson
140. Dental Medicine	Pierson

Prosthodontics

Associate Professor Steinacher, *Chairman*

34. Complete Denture Prosthesis	Steinacher, Hayes
71. Removable Partial Denture Prosthesis	Steinacher, Hayes
141. Prosthodontics Technology	Knodle
143. Clinical Prosthodontics	Steinacher, Knodle
144. Clinical Prosthodontics	Steinacher, Knodle
183. Clinical Prosthodontics	Steinacher, Knodle
184. Prosthodontics	Steinacher, Knodle

Zoology and Physiology

Professor Dwight D. Miller, *Chairman*

105. Human Anatomy	Yowell, Anderson
106. Human Anatomy	Yowell, Anderson
109. Histology and Embryology	Powell, Anderson
151. Mammalian Physiology	McCashland
152. Mammalian Physiology	McCashland

**COLLEGES, SCHOOLS, AND DIVISIONS
OF
THE UNIVERSITY OF NEBRASKA**

Junior Division

Supervises the orientation, advising, and registration of freshmen.

College of Agriculture

Leading to the degrees of Bachelor of Science in Agriculture and Bachelor of Science in Home Economics.

In addition to the resident teaching division, the College of Agriculture is comprised of the Agricultural Experiment Station with headquarters on the Lincoln campus and at outlying stations at North Platte, Scottsbluff, Alliance, Crawford, Concord, and Union; the Agricultural Extension Service with headquarters in Lincoln, and county or district extension offices at 83 locations in the state; and the University of Nebraska High School of Agriculture at Curtis.

College of Arts and Sciences

Leading to the degree of Bachelor of Arts, Bachelor of Fine Arts, Bachelor of Music, Bachelor of Science.

School of Fine Arts

Leading to the degrees of Bachelor of Fine Arts, Bachelor of Music, Bachelor of Fine Arts in Education, Bachelor of Music in Education, Master of Fine Arts, Master of Music—in the appropriate colleges.

School of Journalism

Leading to the degrees of Bachelor of Arts, Bachelor of Science in Agriculture, Bachelor of Science in Business Administration, Bachelor of Arts in Education—in the appropriate colleges—and to a Professional Certificate in Journalism.

College of Business Administration

Leading to the degree of Bachelor of Science in Business Administration.

College of Dentistry

Leading to the degree of Doctor of Dental Surgery.

College of Engineering and Architecture

Leading to the degrees of Bachelor of Architecture, Bachelor of Science in Agricultural Engineering, Bachelor of Science in Chemical Engineering, Bachelor of Science in Civil Engineering, Bachelor of Science in Electrical Engineering, Bachelor of Science in Mechanical Engineering; and the professional degrees of Agricultural Engineer, Chemical Engineer, Civil Engineer, Electrical Engineer, Mechanical Engineer, and Architect.

Supervises Nebraska Engineering Experiment Station, Lincoln.

Graduate College

Leading to the degrees of Doctor of Philosophy, Master of Arts, Master of Science, Master of Architecture, Master of Fine Arts, Master of Music, Master of Science in Dentistry, Master of Physical Education, Master in Psychiatric Nursing, Master in Psychiatric Occupational Therapy, and Master of Social Work.

Graduate School of Social Work

Leading to the degree of Master of Social Work.

College of Law

Leading to the degrees of Bachelor of Science in Law and Bachelor of Laws.

College of Medicine

Leading to the degrees of Doctor of Medicine, Bachelor of Science in Medicine, Bachelor of Science in Medical Technology, Bachelor of Science in Radiological Technology, certificate in Medical Technology, and certificate in Radiologic Technic.

School of Nursing

Leading to the degree of Bachelor of Science in Nursing.

College of Pharmacy

Leading to the degree of Bachelor of Science in Pharmacy.

Teachers College

Leading to the degrees of Bachelor of Science in Education, Bachelor of Arts in Education, Bachelor of Fine Arts in Education, Bachelor of Music in Education, Master of Education, Doctor of Education.

Supervises University High School, Lincoln.

Summer Sessions

University Extension Division

Separate bulletins or information concerning any college, school or division may be obtained free of charge by addressing the Registrar, University of Nebraska, Lincoln 8, Nebraska

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